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BULLETIN  
OF THE  
TORREY BOTANICAL CLUB

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AUGUST, 1922

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Philippine Basidiomycetes—V\*

PAUL W. GRAFF

POLYPOREAE (*Con.*)

PORIA Persoon

PORIA LEUCOPLACA (Berk.) Sacc. Syll. Fung. 6: 322. 1888.

*Polyporus leucoplacus* Berk.; Hooker, Flora Nov. Zeland. 2: 180. 1855.

LUZON: Province of Benguet, Pauai, June, 1909, *R. C. McGregor*, *Bur. Sci.* 8720, at an elevation of 2,100 m., on decaying timber.

Collected previously in New Zealand and Java.

TRAMETES Fries

TRAMETES ASPERA (Jungh.) Bres. Hedwigia 53: 69. 1912.

*Polyporus asper* Jungh. Flor. Crypt. Javae 1: 61. 1838.

*Polystictus asper* Sacc. Syll. Fung. 6: 224. 1888.

LUZON: vicinity of Manila, August, 1912, *Sanchez* 26, 27, growing on decayed logs.

Originally described from material collected in Java.

TRAMETES INCANA Lév. Ann. Sci. Nat. Bot. III. 2: 196. 1844.

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\*The papers of this series already published have appeared as follows. Additions to the basidiomycetous flora of the Philippines. Philip. Jour. Sci: 8: (Bot.) 299-309. *pl.* 8-10. 1913; Philippine Basidiomycetes, II. Philip Jour. Sci. 9: (Bot.) 235-255. *pl.* 2. 1914; Philippine Basidiomycetes—III. Bull. Torrey Club 45: 451-469. *pl.* 15. 1918; Philippine Basidiomycetes—IV. Bull. Torrey Club. 48: 285-295. 1922.

[The BULLETIN for July (49: 189-222) was issued August 10, 1922.]

*Polyporus incanus* Lév.; Gaudichaud, Bot. Voy. Bonite 1: 183.  
pl. 137, f. 2. 1846.

LUZON: Province of Bataan, Mount Mariveles, November, 1912, P. W. Graff, *Bur. Sci.* 5157, 5158.

This fungus was first collected in the Philippines by Gaudichaud-Beaupré, in 1836-37, on the visit of the corvette "La Bonite" to the port of Manila. The fungus has not been reported since, and it is with considerable pleasure that one of these three-quarter century old species is again collected.

TRAMETES PALEACEA Fr. Nov. Symb. Myc. 97. 1851.

*Polyporus paleaceus* Fr. Epicr. Myc. 471. 1838.

LUZON: Province of Bataan, Mount Mariveles, November 3-19, 1912, P. W. Graff, *Bur. Sci.* 19098, on a decaying log at an elevation of 400 m.

Previously reported from New Guinea.

TRAMETES CORRUGATUS (Pers.) Bres. Hedwigia 51: 316. 1912.

*Polyporus corrugatus* Pers.; Gaudichaud, Bot. Voy. Uranie 172. 1826.

*Polyporus fusco-badius* Pers.; Gaudichaud, Bot. Voy. Uranie 172. 1826.

*Polyporus scabrosus* Pers.; Gaudichaud, Bot. Voy. Uranie 172. 1826.

*Daedalea sanguinea* Klotz. Linnaea 8: 481. 1833.

*Polyporus indecorus* Jungh. Flor. Crypt. Javae 1: 51. 1838.

*Polyporus tegularis* Lév. Ann. Sci. Nat. Bot. III. 5: 131. 1846.

*Hexagonia cruenta* Mont. Syll. Gen. Spec. Crypt. 169. 1856.

*Polystictus Persoonii* Cooke, Grevillea 14: 85. 1885.

*Trametes nitida* Pat. Jour. de Bot. 4: 17. 1890.

*Earliella cubensis* Murr. Bull. Torrey Club 32: 479. 1905.

*Earliella corrugata* Murr. Bull. Torrey Club 34: 468. 1907.

LUZON: Province of Laguna, Mount Maquiling, February, 1912, P. W. Graff, *Bur. Sci.* 16027.

This is a much described species of universal tropical distribution. It was first described from material collected in the island of Guam and has later been reported from West Africa, India, Ceylon, Java, Borneo, Sumatra, the Philippines, Australia, and the American tropics.

## DAEDALEA Persoon

DAEDALEA LURIDA Lév. Ann. Sci. Nat. Bot. III. 2: 189. 1844.

*Daedalea subconfragosa* Murr. Bull. Torrey Club 35: 415. 1908.

LUZON: Province of Rizal, January, 1906, *F. W. Foxworthy*, *Bur. Sci.* 22 (type of *Daedalea subconfragosa* Murr.). MINDANAO: District of Davao, Lake Laneo, Camp Keithley, July, 1907, *Mary S. Clemens* "V".

Murrill's species, described from Philippine material, seems to be without doubt identical with that described by Lévillé from Javan specimens.

DAEDALEA PALISOTI Fr. Syst. Myc. 2: 335. 1821.

*Daedalea amanitoides* Beauv. Fl. Owar. 1: 44. pl. 25. 1804.

*Daedalea repanda* Pers.; Gaudichaud, Bot. Voy. Uranie 168. 1826.

*Daedalea applanata* Klotz. Linnaea 8: 481. 1833.

*Lenzites Palisoti* Fr. Epicr. Myc. 404. 1838.

*Lenzites repanda* Fr. Epicr. Myc. 404. 1838.

*Lenzites applanata* Fr. Epicr. Myc. 404. 1838.

*Lenzites pallida* Berk. Jour. Bot. 1: 146. 1842.

*Lenzites platypoda* Lév. Ann. Sci. Nat. Bot. III. 2: 180. 1844.

LUZON: Province of Rizal, Bosoboso, July, 1906, *M. Ramos*, *Bur. Sci.* 1191; Province of Laguna, Mount Maquiling, February, 1912, *P. W. Graff*, *Bur. Sci.* 15951, on fallen and decayed tree trunk. CULION: October, 1903, *Merrill* 3531. NEGROS: Gimagaan River, January, 1904, *Copeland* 21.

*Daedalea indica* Jungh., described from Javan material, should in all probability be added to the list of synonyms of this species. *Daedalea*, in the Polyporaceae, and *Lenzites*, in the Agaricaceae, are so closely related, and the species of one so often show a strong tendency to a variation toward the other, that considerable confusion has arisen in their determination. This is especially true in the case of this species and *D. flavida* Lév. in the Philippine material. In the latter species the variation even goes further, producing a *Trametes* form.

The types of both Lévillé's and Berkeley's species are from material collected in the Philippines. This species is of very general tropical distribution.

DAEDALEA PRUINOSA Lév. Ann. Sci. Nat. Bot. III. 2: 199. 1844.

*Hexagonia glabra* Lév. Ann. Sci. Nat. Bot. III. 5: 143. 1846.

LUZON: Province of Laguna, Mount Maquiling, February, 1912, *P. W. Graff, Bur. Sci. 16015*.

Collected previously in India and the Hawaiian Islands.

**Daedalea versatilis** (Berk.) comb. nov.

*Trametes versatilis* Berk. Jour. Bot. 1: 150. 1842.

*Hexagonia ciliata* Klotz. Nov. Act. Acad. Nat. Cur. 19: (Suppl.) 235. pl. 5, f. 1. 1843.

*Polystictus versatilis* Sacc. Syll. Fung. 6: 244. 1888.

*Funalia versatilis* Murr. Bull. Torrey Club 34: 469. 1907.

LUZON: Province of Bataan, Lamao, February, 1904, *Williams*.

As represented in Philippine material this species is of a decidedly daedaleoid type. Occasionally *Trametes*-like forms are collected, showing that it may merge into the type of plant described by Berkeley. These forms are rare, however, as also are such as might tend toward the genus *Polystictus*.

Collected in the American tropics and the Philippines.

#### ELMERINA Bresadola

ELMERINA CLADOPHORA (Berk.) Bres. Hedwigia 51: 319. 1912.

*Hexagonia cladophora* Berk. Jour. Linn. Soc. Bot. 16: 47. 1878.

LUZON: Province of Nueva Ecija, Cabanatuan, October, 1908, *R. C. McGregor, Bur. Sci. 5272*; Province of Rizal, Jalajala, October, 1910, *C. B. Robinson, Bur. Sci. 11925*.

Reported only from the Philippines.

ELMERINA VESPACEA (Pers.) Bres. Hedwigia 51: 319. 1912.

*Hexagonia vespacea* Pers.; Gaudichaud, Bot. Voy. Uranie 170. 1826.

*Lenzites aspera* Klotz. Linnaea 8: 480. 1833.

*Polyporus lacerus* Jungh. Flor. Crypt. Javae 1: 65. 1838.

*Daedalea inconcinna* Berk. Jour. Bot. 1: 151. 1842. Not Deless.

*Lenzites platyphylla* Lév. Ann. Sci. Nat. Bot. III. 2: 179. 1844.

*Daedalea aulaxina* Lév. Ann. Sci. Nat. Bot. III. 2: 197. 1844.

*Hexagonia Molkenboeri* Lév. Ann. Sci. Nat. Bot. III. 2: 200. 1844.

*Hexagonia macrotrema* Jungh.; Fries, Symb. Myc. 101. 1851.

*Hexagonia albida* Berk. Jour. Linn. Soc. Bot. **16**: 47. 1878.

*Hexagonia Cesati* Berk.; Cesati, Myc. Born. 8. 1879.

*Daedalea pruinosa* Ces. Myc. Born. 7. 1879. Not Lévêillé.

*Daedalea intermedia* Berk. Jour. Linn. Soc. Bot. **18**: 385.  
1879.

*Lenzites nivea* Cooke, Grevillea **15**: 94. 1886.

NEGROS: Province of Negros Oriental, Dumaguete, April,  
1908, *Elmer 9860*.

Collected in Hawaii, Mauritius, Surinam, and Java.

#### HEXAGONIA Fries

HEXAGONIA APIARIA (Pers.) Fr. Epicr. Myc. 497. 1836.

*Polyporus apiarius* Pers.; Gaudichaud, Bot. Voy. Uranie  
**172**. 1826.

*Hexagonia Koenigii* Berk. Ann. Nat. Hist. II, **10**: 379. 1853.

LUZON: Province of Bataan, November, 1909, *H. M. Curran*,  
*For. Bur. 19226*.

Collected in Java, Ceylon, and the Rawak Islands.

**Hexagonia Clemensiae** (Murr.) comb. nov.

*Inonotus Clemensiae* Murr. Bull. Torrey Club **35**: 401. 1908.

*Polyporus Clemensiae* Sacc. & Trott.; Saccardo, Syll. Fung.  
**21**: 272 1912.

MINDANAO: District of Davao, Lake Laneo, Camp Keithley,  
September–October, 1907, *Mary S. Clemens*, on dead wood.

Not reported as yet outside the Philippine Islands.

HEXAGONIA CUCULLATA (Mont.) Murr. Bull. Torrey Club **31**:  
332. 1904.

*Favolus cucullatus* Mont.; Ramon de la Sagra, Hist. Phys.  
Polit. Nat. Cuba **9**: 378. 1841.

*Favolus curtipes* Berk. & Curt. Jour. Bot. Kew Gard. Miscel.  
**1**: 234. 1849.

*Hexagonia Taxodii* Murr. Bull. Torrey Club **31**: 332. 1904.

LUZON, Province of Isabella, Palanan Bay, June, 1913,  
*Escritor, Bur. Sci. 21185*.

Collected in Ceylon, the West Indies, tropical America, and  
eastern United States.

**Hexagonia subrubida** (Murr.) comb. nov.

*Hapalopilus subrubidus* Murr. Bull. Torrey Club **34**: 470.  
1907.

*Polyporus subrubidus* Sacc. & Trott.; Saccardo, Syll. Fung. 21: 276. 1912.

LUZON: Province of Bataan, Mount Mariveles, November, 1904, *Elmer 6912*, on dead tree branches.

This species should have been transferred to the genus *Hexagonia* by Saccardo and Trotter instead of to the genus *Polyporus*, to which it does not belong.

So far only found in the Philippine Islands.

#### FAVOLUS Fries

FAVOLUS MEGALOPORUS (Mont.) Bres. Hedwigia 52: 74. 1912.

*Polyporus megaloporus* Mont. Ann. Sci. Nat. Bot. IV. 1: 124. 1854.

*Favolus princeps* Berk. & Curt. Jour. Linn. Soc. Bot. 10: 321. 1869.

LUZON: Province of Nueva Vizcaya, Mount Umuguen, May 19, 1909, *M. Ramos, Bur. Sci. 8282*.

Reported from French Guiana, Cuba, and Java.

FAVOLUS MULTIPLEX Lév. Ann. Sci. Nat. Bot. III. 2: 203. 1844.

LUZON: Province of Bataan, Balanja Mountains, January, 1910, *H. M. Curran, For. Bur. 19252*.

According to the collector's note this fungus is edible and used by the Negritos of Bataan Province as a food.

This species has been previously reported from Brazil and Java.

FAVOLUS SPATHULATUS (Jungh.) Lév. Ann. Sci. Nat. Bot. III, 2: 203. 1844.

*Laschia spathulata* Jungh. Flor. Crypt. Javae 1: 75. 1838.

*Hymenogramme spathulata* Sacc. & Cub.; Saccardo, Syll. Fung. 5: 653. 1887.

MINDANAO: District of Davao, Mount Apo. September, 1909, *Elmer 11572*.

Previously collected in Java.

#### GLOEOPORUS Montagne

*Gloeoporus reticulatus* (Fr.) comb. nov.

*Auricularia reticulata* Fr. Epicr. Myc. 555. 1836.

*Gloeoporus conchoides* Mont.; Ramon de la Sagra, Hist. Phys. Polit. Nat. Cuba 9: 385. *pl. 15, f. 1*, 1841.

*Thelephora dolosa* Lév. Ann. Sci. Nat. Bot. III. 2: 209. 1844.  
LUZON: Province of Laguna, Mount Maquiling, February,  
1912, *P. W. Graff, Bur. Sci. 15952*.

Collected previously in Brazil, Cuba, and Java.

GLOEOPORUS DICHROUS (Fr.) Bres. Hedwigia 52: 74. 1912.  
*Polyporus dichrous* Fr. Obs. Myc. 1: 125. 1815.  
*Boletus thelephoroides* Hook.; Kunth, Syn. Plant. 10. 1822.  
*Boletus dichrous* Spreng. Syst. Veget. 4: 475. 1828.  
*Polyporus nigro-purpurascens* Schwein. Syn. Fung. Amer.  
Bor. 360. 1831.  
*Polyporus pelleporus* Secr. Mycogr. Suisse Champ. 73. 1833.  
*Polyporus thelephoroides* Fr. Epicr. Myc. 473. 1836.  
*Gloeoporus candidus* Speg. Fung. Guar. Pug. 1: 30. 1883.  
*Polystictus thelephoroides* Sacc. Syll. Fung. 4: 284. 1886.  
LUZON: Province of Rizal, January, 1906, *F. W. Foxworthy*,  
*Bur. Sci. 79*. MINDANAO: District of Davao, Mount Apo,  
May, 1909, *Elmer 10747*.

Collected in southern Europe, the American tropics, and  
Java.

#### LASCHIA Fries

LASCHIA MINIMA (Jungh.) Sacc. Syll. Fung. 6: 409. 1888.  
*Polyporus minimus* Jungh. Flor. Crypt. Javae 1: 64. 1838.  
MINDANAO: Subprovince of Butuan, March–July, 1911,  
*Weber 1229*, on decaying woods.  
Reported previously from Java.

#### AGARICINEAE

##### PLEUROTUS Fries

PLEUROTUS FLABELLATUS Berk. & Br. Jour. Linn. Soc. Bot.  
11: 529. 1871.  
LUZON: Province of Benquet, Baguio, December 5, 1910,  
*E. Fénix, Bur. Sci. 12948*, on dead wood.  
Collected previously in tropical America, Ceylon, and South  
Africa.

##### LENTINUS Fries

LENTINUS FUSCO-PURPUREUS Kalchbr. Grevillea 8: 153. 1880.



LUZON: Province of Rizal, Bosoboso, July, 1906, *M. Ramos*, *Bur. Sci.* 1196.

This species, while allied to *Lentinus Zeyheri* Berk., seems to be distinct.

Described from material collected on the Richmond River, Australia, and not previously reported from elsewhere.

LENTINUS JAVANICUS Lév. Ann. Sci. Nat. Bot. III. 5: 118. 1846.

*Lentinus Decaisneanus* Lév. Ann. Sci. Nat. Bot. III. 5: 120. 1846.

*Lentinus infundibuliformis* Berk. & Br. Jour. Linn. Soc. Bot. 14: 42. 1875.

LUZON: Province of Bataan, Lamao, February 29, 1904, *Copeland* 175.

Previously reported from Java.

LENTINUS POLYCHROUS Lév. Ann. Sci. Nat. Bot. III. 2: 175. 1844.

*Lentinus praerigidus* Berk. Jour. Bot. Kew Gard. Miscel. 6: 132. 1854.

*Lentinus Kurzianus* Berk. & Curr. Trans. Linn. Soc. II. 1: 120. *pl.* 20, *f.* 2. 1876.

LUZON: Province of Cagayan, Aparri, March, 1909, *H. M. Curran*, *For. Bur.* 16819.

Collected in Java, Sumatra, and eastern India.

LENTINUS SAJOR-CAJU (Rumph.) Fr. Epicr. Myc. 393. 1838.

*Agaricus sajor-caju* Rumph. Herb. Amb. 11: 125, *pl.* 56, *fig.* 1. 1741-1755.

LUZON: Province of Bataan, Mount Mariveles, January, 1904, *Merrill* 3704.

Collected in Amboinia and Java.

LENTINUS TANGHINIAE Lév. Ann. Sci. Nat. Bot. III. 5: 119. 1846.

MINDANAO: District of Davao, Todaya, March, 1904, *Copeland* 516.

Described from material collected in Madagascar.

LENTINUS VELUTINUS Fr. Linnaea 5: 510. 1830.

*Scleroma velutinum* Fr. Epicr. Myc. 392. 1838.

*Lentinus setiger* Lév. Ann. Sci. Nat. Bot. III. 2: 176. 1844.

*Lentinus brachatus* Lév.; Zollinger, Syst. Verz. Ind. Arch. 17. 1854.

MINDANAO: District of Davao, Todaya, April, 1904, *Copeland*.  
Collected previously in Brazil, Cuba, and Guiana.

LENZITES Fries

LENZITES ACUTA Berk. Jour. Bot. 1: 146. 1842.

LUZON: Province of Cagayan, March, 1909, *Becani*, *For. Bur.* 16712.

The gills in this species have a somewhat wavy margin as well as being notched and, while the majority of the longer ones are forked, most of the shorter are distinct.

This is the only collection which has been made of this fungus in the Philippines since Cuming's collection of the type, between 1836 and 1840. In the meanwhile the species has been collected in northern India.

LENZITES PLATYPHYLLA Lév. Ann. Sci. Nat. Bot. III. 2: 179. 1844. Not Cooke.

LUZON: Province of Nueva Vizcaya, vicinity of Dupax, January–April, 1912, *R. C. McGregor*, *Bur. Sci.* 14353. 20284; Province of Bataan, Lamao, November, 1909, *H. M. Curran*, *For. Bur.* 19188; Mount Mariveles, January, 1910, *H. M. Curran*, *For. Bur.* 19244a, MINDANAO: District of Davao, Lake Lanao, Camp Keithley, September, 1907, *Mary S. Clemens*.

Collected previously in Java and Guiana.

LENZITES STRIATA (Swartz) Fr. Epicr. Myc. 406. 1838.

*Agaricus striatus* Swartz, Prodr. Fl. Ind. Occ. 148. 1788.

*Merulius striatus* Lam. Encyc. Méth. Bot. 4: 127. 1797.

*Daedalea striata* Fr. Syst. Myc. 1: 334. 1821.

LUZON: Province of Bataan, Mount Mariveles, November 3–19, 1912, *P. W. Graff*, *Bur. Sci.* 19044, at an elevation of 350 m., on decaying and burned logs.

Previously collected in tropical America, (including the West Indies,) Australia, and Borneo.

SCHIZOPHYLLUM Fries

SCHIZOPHYLLUM COMMUNE Fr. Syst. Myc. 1: 330. 1821.

*Agaricus multifidus* Batsch, Elench. Fung. 1: 124. f. 126. 1786.

*Scaphophorus agaricoides* Ehrh.; Nees, Hor. Phys. Berol. 94. 1820.

*Schizonia vulgaris* Pers. Myc. Eur. 3: 14. 1828.

*Schizophyllum alneum* Schröt.; Cohn, Krypt. Flor. Schles. 3: 383. 1887.

LUZON: Province of Rizal, Bosoboso, July, 1906, *M. Ramos*, *Bur. Sci.* 1195; Panay, Iloilo, January 2, 1904, *Copeland* 29.

A fungus of universal distribution living on woody hosts of all sorts, both as a saprophyte and as a facultative parasite. After gaining entrance beneath the bark of living trees, through wounds, this species is able to slowly advance through the tissues which are apparently killed in advance of the progress of the fungus.

#### CREPIDOTUS Fries

CREPIDOTUS POGONATUS Kalchbr. Grevillea 9: 131. 1880.

LUZON: Province of Nueva Vizcaya, vicinity of Dupax, January 14, 1913, *R. C. McGregor*, *Bur. Sci.* 20251, on decaying twigs.

Previously collected in East Africa.

#### PANAEOLUS Fries

PANAEOLUS PAPILIONACEUS (Bull.) Fr. Epicr. Myc. 236. 1836.

*Agaricus equinus* Alb. & Schw. Consp. Fung. Lus. 3. 1805.

*Agaricus campanulatus* Linn. Sp. Plant. 1175. 1753.

*Agaricus carbon* Batsch, Elench. Fung. 6. 1783.

*Agaricus papilionaceus* Bull. Hist. Champ. France 561. 1791-1798.

*Agaricus varius* Pers. Icon. Des. Fung. 40. 1800.

*Panaeolus campanulatus* Berk. Outl. Brit. Fung. 175. 1860.

*Copelandia papilionacea* Bres. Hedwigia 53: 51. 1912.

LUZON: Province of Cagayan, Aparri, March, 1909, *H. M. Curran*, *For. Bur.* 17143; vicinity of Manila, September, 1905, *Merrill* 5008. MINDANAO: District of Davao, March 5, 1904, *Copeland* 344.

The formation of the new genus *Copelandia*, in which the sole distinction from *Panaeolus* is the presence of cystidia, is inviting for the future a confusion similar to that existing in the genera *Panus* and *Lentinus*, where the only difference exists in the presence or absence of notched gills. This characteristic, even though at present confined to this one species, is not a sufficient distinction for a generic character, or to insure

the possible acceptance of this as the type of a new genus. It seems the wisest course, therefore, to continue as before with the use of the Friesian name, at least till some character more positive may be found to warrant the change.

Previously reported from the United States, Europe, South Africa, southern Siberia, Ceylon, Borneo, and Australia as well as the Phillippines.

UNIVERSITY OF MONTANA,  
MISSOULA, MONTANA